

AMENDMENTS

In the Claims

Please amend claims 1 – 6 to read as follows:

- Sub
El
1. A method of controlling drag and vortex induced vibration in a substantially cylindrical element consisting of providing an ultra-smooth surface about the cylindrical element having a K/D ratio of 1.0×10^{-4} or less where:
K is an average measure surface peak to through distance and
D is an effective outside diameter of the cylindrical element.
2. A method of controlling drag and vortex induced vibration about a substantially cylindrical marine element consisting of an ultra-smooth surface coating about the cylindrical element having a K/D ratio of 1.0×10^{-4} or less where:
K is an average measured surface peak to trough peak distance; and
D is an effective outside diameter of the cylindrical element including the coating.
- DI
3. A method of controlling drag and vortex induced vibration about a substantially cylindrical marine element consisting of an ultra-smooth surface substantially cylindrical sleeve about the cylindrical element having a K/D ratio of 1.0×10^{-4} or less where:
K is an average measured surface peak to trough peak distance; and
D is an effective outside diameter of the cylindrical element, including the sleeve.
4. A system for controlling drag and vortex induced vibration, consisting of:
a substantially cylindrical marine element have an ultra-smooth effective surface with a K/D roughness parameter of about 1.0×10^{-4} or less, where:
K is an average measured surface peak to trough peak distance; and
D is an effective outside diameter of the cylindrical element, including the sleeve.
5. A system for controlling drag and vortex induced vibration consisting of a substantially cylindrical marine element having an ultra-smooth coating material with a K/D roughness parameter of 1.0×10^{-4} or less where:
K is an average measured surface peak to trough peak distance; and
D is an effective outside diameter of the cylindrical element including the coating.